

BX 6843

TYPE 1 CAMERA EXPOSURE NUMBERS

PRIMARY

INPUT DATA

* OUTPUT DATA

TIME (MIN)	ALTITUDE (FEET)	TERR ELEV	D VALUE	GRD SPD	SUN ANG	HAZE FCTR	REFL FCTR	V/H	EXP NOS
00	77900	265		1765	54	1	I	3.836	08
03	78400	279		1774	53	1	I	3.831	08
06	81900	426		1801	51	1	I	3.730	08
09	83400	100		1815	50	1	I	3.676	08
12	84600	1952		1820	49	1	I	3.716	08
15	85600	1837		1828	47	1	I	3.683	08
18	85700	60		1841	45	1	H	3.627	09
21	86300	3790		1838	45	1	H	3.759	09
24	87200	6400		1833	44	1	I	3.828	08
27	81900	3950		1796	45	1	I	3.889	08
27 END FIRST PASS									
30	57000	2500		1400	47	1	I	4.334	08
33	68000	2500		1600	47	1	I	4.122	08
36	74000	1610		1785	46	1	I	4.160	08
39	80300	1829		1829	45	1	I	3.933	08
42	80700	295		1826	45	1	H	3.833	08
45	81000	840		1827	44	1	H	3.846	08
48	81400	840		1820	45	1	H	3.813	08
51	82100	689		1823	46	1	I	3.779	08
54	82600	0000		1823	46	1	I	3.725	08
57	78000	0000		1764	47	1	I	3.816	08
60	78500	0000		1779	48	1	I	3.825	08

64 END SECOND PASS TOTAL CAM TIME 64 MINUTES

TOP SECRET

TYPE 1 CAMERA EXPOSURE NUMBERS

INPUT DATA

* OUTPUT DATA

TIME	ALTITUDE	TERR	D	GRD	SUN	HAZE	REFL	V/H	E
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BX6843 - BACK-UP

(MIN)	(FEET)	ELEV	VALUE	SPD	ANG	FCTR	FCTR	NOS
00	77900	265		1765	55	1	I	3.836 08
03	78400	279		1774	53	1	I	3.831 08
06	81900	426		1801	52	1	I	3.730 08
09	83400	100		1815	50	1	I	3.676 08
12	84600	1952		1820	48	1	I	3.716 08
15	85600	1837		1828	47	1	I	3.683 08
18	85700	60		1841	46	1	H	3.627 09
21	86300	3790		1838	46	1	H	3.759 09
24	87200	6400		1833	47	1	I	3.828 08
27	81900	3950		1796	47	1	I	3.889 08
27 END FIRST PASS								
30	57000	2500		1400	44	1	I	4.334 08
33	68000	2500		1600	44	1	I	4.122 08
36	74000	1610		1785	44	1	I	4.160 08
39	80300	1829		1829	44	1	I	3.933 08
42	80700	295		1826	42	1	H	3.833 09
45	81000	840		1827	41	1	H	3.846 09
48	81400	840		1820	40	1	H	3.813 09
51	82100	689		1823	40	1	I	3.779 08
54	82600	0000		1823	41	1	I	3.725 08
57	78000	0000		1764	41	1	I	3.816 08
60	78500	0000		1779	41	1	I	3.825 08

64 END SECOND PASS TOTAL CAM TIME 64 MINUTES

25X1 THIS IS A MESSAGE FOR BX6843 TYPE 1 PACKAGE CUSTOM ROUTE

25X1 STBY 2 SECOND PASS

CAM ON CAM ON

STBY 2 STBY 2

END OF DATA

EOF

ABBREVIATED JOINT MESSAGEFORM

Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9

TON

PHONE

25X1

PRECEDENCE

RELEASED BY

ACTION

IMMEDIATE

INFO

FROM:

TO:

1 SIG CEN
1 COMDR
1 DCM
1 DCO
1 INS

A. BX 6843

B. INS ~~EXE~~ TAPE REPORT

C. INS 010

D.

E. SEE H

F. SEE H

G. 5/020348Z - 5/064606Z

H. DATA GOOD. DATA WILL BE RETAINED UNLESS OTHERWISE NOTIFIED.

END OF MSG

CONTROL NO.

TOR/TOD

PAGE NO.

NO. OF PAGES

MESSAGE IDENTIFICATION

INITIALS

REGRADING INSTR Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9

Next 9 Page(s) In Document Exempt

28140

27 JAN 68 03 36z

25X1

Section	Act	Info
Comdr		
DCS		
DCO (2)		
DCM (2)		
Secur		
Admin		
Medic		
Finan		
R & D		
Commo		
HGR		
HGR/M		
H-1		
H-2E		
H-2P		
H-2M		
H-6H		

25X1

25X1

25X1
25X1

SECRET 27039Z JAN 68 CITE

PRIORITY INFO

SUBJ: EVALUATION OF BLACK SHIELD, MISSION BX6843

1. CAMERA TYPE 1 (115A) UNIT C WAS USED ON MISSION BX6843
 FLOWN 5 JANUARY 1968. THE MISSIONS CONSISTS OF 1566 TITLED FRAMES
 AND WAS PROCESSED IN THE FIELD.

2. BOTH CAMERAS OPERATED SATISFACTORILY THROUGHOUT THE MISSION,
 EXCEPT ON FRAMES 1349-1382 (SEE PARA 4). GROUND RESOLUTION OBTAINED
 AT NADIR DURING STRAIGHT AND LEVEL FLIGHT WITH THE CAMERA UNCAGED
 IS ESTIMATED TO BE 13 INCHES (BAR PLUS SPACE).

3. EXPOSURE IS ADEQUATE THROUGHOUT THE MISSION. PROCESSING
 WAS SATISFACTORY.

4. START-UP AND SHUT-DOWN WERE NORMAL. THE CAMERA RECYCLED
 BETWEEN FRAMES 763-786. A TOTAL OF 49 AFT FRAMES ARE LACKING
 DATA BLOCKS. EMULSION SCRATCHES OCCURRED DURING START-UP AND SHUT-
 DOWN APPROXIMATELY 0.5 INCH FROM THE LEADING EDGE (EDGE OPPOSITE
 THE CLOCKS). MINOR EMULSION SCRATCHES ARE PRESENT INTERMITTENTLY
 THROUGHOUT THE MISSION WITH ONE SCRATCH 0.7 INCH FROM THE LEADING
 EDGE IN ALL FRAMES. THESE FAINT SCRATCHES CAUSE NO IMAGE DEGRADA-

PAGE 2 S E C R E T

TIOL. APPROXIMATELY EVERY OTHER FORWARD FRAME DATA BLOCK ENTERS THE FORMAT (A MAXIMUM OF 0.4 INCHES). THE TIMING MARKS ALONG THE TRAILING EDGE OF THE FORWARD FRAMES OCCASIONALLY RUN OFF THE FILM EDGE AT THE NON-DATA BLOCK END. UP TO SEVEN INCHES OF TIME TRACK IS MISSING AT THE BEGINNING OF SCAN. TWO MINUS DENSITY LINES (2.7 AND 2.8 INCHES FROM THE LEADING EDGE) ARE DETECTABLE IN ALL FORWARD FRAMES. ONE MINUS DENSITY LINE (2.4 INCHES FROM THE LEADING EDGE) IS PRESENT IN ALL AFT FRAMES. A PIECE OF EMULSION 0.1 INCH SQUARE IS MISSING FROM THE MIDDLE OF FRAME 144. THERE ARE FOUR CASES OF OVERLAPPING FRAMES OTHER THAN THOSE DUE TO START-UP, SHUT-DOWN OR CAMERA RECYCLE. THREE OF THESE CASES INVOLVE ONLY TWO FRAMES EACH. FRAMES 645/648, 685/688, AND 1427, 1428. THE MAXIMUM OVERLAP OF THESE THREE CASES IS 0.15 INCH. ALSO FRAMES 1349 AND 1382, OVERLAP A MAXIMUM OF 5.8 INCHES. THE CAMERA WAS RUNNING SLOW DURING THESE FRAMES. FRAME 597 CONTAINS A 0.5 INCH LONG CRIMP RUNNING ACROSS TRACK. HEAT SPLICES ARE PRESENT BETWEEN FRAMES 267/270, 675/678, 761/764 AND 1209/1212. FRAME 498 HAS AN ULTRA-SONIC SPLICE IN IT. INK OR CREASE STAINS THAT RESEMBLE FINGER PRINTS ARE ALSO PRESENT ADJACENT TO THE SPLICE. A PLUS DENSITY AREA (0.5 INCH ACROSS TRACK BY 0.5 INCH ALONG TRACK) APPEARED ON

25X1

PAGE 3 S E C R E T

THE TRAILING EDGE AFTER THE RECYCLE. IT APPEARED INTERMITTENTLY THROUGHOUT THE REST OF THE MISSION. WHEN TWO OR MORE OCCUR CLOSE TOGETHER, THEY ARE ALWAYS 21 INCHES APART. ALL FORWARD FRAMES BETWEEN 777 AND 853 CONTAIN A MINUS DENSITY BAND (0.25 INCH WIDE AND LOCATED 5 TO 6 INCHES FROM THE DATA BLOCK END OF FRAME) RUNNING ALONG TRACK. IT APPEARS TO BE A SHADOW OF THE VEHICLE'S CONTRAIL.

5. A YELLOW DISCOLORATION WAS NOTED THROUGHOUT THE MISSION ON THE ORIGINAL NEGATIVE.

6. BOTH PROGRAMMED AND SENSED V/H WERE USED ON THIS MISSION. THE IMAGERY OBTAINED FROM EACH IS SATISFACTORY.

7. THE CORRELATION OF THE INS TAPE, FILM DATA BLOCK AND IMAGERY IS SATISFACTORY.

8. THE ZERO PRIORITY REPRODUCTION AND REGULAR REPRODUCTION APPEAR TO BE OF EQUAL QUALITY.

9. CLOUDS OBSCURE APPROXIMATELY 30 PERCENT OF THE MISSION.

*Access
Film*

25X1

25X1

5 JUN 68 22 48z

ZCZC697

FTP989/052235Z ZFF-1 ZPO [REDACTED]

BT

XXXXX

OPCEN 789 [REDACTED]

OPCEN PASS [REDACTED]

25X1

25X1

27/03

25X1

25X1

25X1

TOP SECRET 052232Z GITE [REDACTED]

IMMEDIATE [REDACTED]

INFO [REDACTED]

A. BX 6843

B. INS TAPE EVALUATION REPORT

C. INS 010

D. 04/1120 B

E. 1. SATISFACTORY

2. SATISFACTORY

3. SATISFACTORY

4. SATISFACTORY

5. SATISFACTORY

6. SATISFACTORY

7. BETWEEN ELAPSED TIMES 13096 AND 13105, 13169, AND 13192, THE TENTHS DIGIT IN THE ROLL RECORDS WAS MISSING.

BETWEEN ELAPSED TIMES 13247 AND 13260 THERE WERE TWO LINES WHERE THE TENTHS DIGIT IN THE ROLL RECORD WAS MISSING.

8. SATISFACTORY

9. SATISFACTORY

10. SATISFACTORY

F. TAPE APPEARS GENERALLY SATISFACTORY. TAPE EVALUATION PERTAINS TO CAMERA OPERATION ONLY.

TOP SECRET

BT

25X1
25X1

OPCEN 217

OPCEN PASS

27412

ILLEGIB

TOP SECRET 052145Z CITE

25X1

25X1

A. BX6843
B. FLASH REPORT AFTER PROCESSING
C. TYPE I
D. C
E. THE FILM ARRIVED IN GOOD PHYSICAL CONDITION WITH NORMAL EXPOSURE, MEDIUM CONTRAST, AND GOOD RESOLUTION. DATA RECORDING WAS OPERATIONAL IN FWD POSITION, AND INTERMITTANT IN THE AFT POSITION WITH 75 TO 100 CHAMBERS ABSENT. CAMERA STARTUP AND SHUT-DOWN NORMAL WITH RECYCLE OCCURRING THROUGHOUT 40 FRAMES, 50 O/O INTO MISSION. DATA CHAMBERS WERE SLANTED APPROXIMATELY 6 DEGREES. TO THE LEFT OF BIAS CAUSING SOME DATA CHAMBERS TO ENTER IMAGERY UP TO 1/16". TWO MINUS DENSITY LINES, 1/16" APART AND 3 3/4" FROM TRAILING EDGE AND ONE MINUS DENSITY LINE 1 1/4" FROM LEADING EDGE OCCURRING ON ALL FWD GRAMES. A MINUS DENSITY LINE WAS NOTED 2 1/2 INCHES FROM LEADING EDGE ON ALL AFT FRAMES. ~~HEAVY YELLOW DISCOLORATION SIMILAR TO BX6842 PRESENT IN THE FILM.~~ DISCOLORATION WAS NOT NOTED ON IDENT MATERIAL PRESPLICED ONTO MISSION MATERIAL. ALSO PRESENT WAS AN ORANGE PEEL EFFECT ON THE FLLM.

TOP SECRET

BT

NNNN

ABBREVIATED JOINT MESSAGE FORM
Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9
and/or CONTINUATION SHEET

SECURITY CLASSIFICATION

25X1

PRECEDENCE

RELEASED BY

DRAFTED BY

PHONE

ACTION

ROUTINE

INFO

FROM:

TO:

1 SIG CTR
1 CMDR
1 DOM
1 POL

1. (A) SPECIAL FUEL TEST REPORT (POST FLIGHT)

(B) 504 1410L/5

071 1450L/5

520 1500L/5

088 1840L/5

089 2130L/5

095 2205L/5

125 2225L/5

(C) FUEL TESTED IN PARA B QUAL IAW SECTION VII TEST CRITERIA

2. (A) SPECIAL FUEL TEST REPORT (POST REFUEL)

(B) 504 1440L/5

095 2240L/5

125 2300L/5

089 2350L/5

(C) FUEL TESTED IN PARA B QUAL IAW SECTION VII TEST CRITERIA

END OF MESSAGE

CONTROL NO.

TOR/TOD

PAGE
NO.

NO. OF
PAGES

MESSAGE IDENTIFICATION

INITIALS

REGRADING INSTRUCTIONS

SECURITY CLASSIFICATION

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DD FORM 173-1

1 NOV 63

REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.

SECURITY CLASSIFICATION

ABBREVIATED JOINT MESSAGEFORM

Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9
and/or CONTINUATION SHEET

PHONE

PRECEDENCE

RELEASED BY

ACTION

INFO

FROM:

TO:

1 SIG CEN
1 COMDR
1 DCM
1 DCO
1 INS ILLEGIB

A. BX 6843

B. INS ~~EXE~~ TAPE REPORT

C. INS OLO

E. SEE H

F. SEE H

G. 5/020348Z - 5/064606Z

H. DATA GOOD. DATA WILL BE RETAINED UNLESS OTHERWISE NOTIFIED.

END OF MSG

25X1

CONTROL NO.

TOR/TOD

PAGE NO.

NO. OF PAGES

MESSAGE IDENTIFICATION

INITIALS

REGRADING INSTRUCTIONS

Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9

DD

FORM 1 NOV 63

173-1

REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.

DRAFTED BY

PHONE

ACTION

~~SECRET~~

INFO

~~SECRET~~

FROM:

TO:

INFO

1 SIG GEN
1 COMDR
1 DCM
1 INS
1 DGO

- A. BX 6843
- B. FINAL FIELD EVALUATION OF INS DATA
- C. INS 010
- D. LINE 23 FLIGHT DATA STARTS. GMT 02:29:20
LINE 1299 FLIGHT DATA ENDS. GMT 06:04:16
BETWEEN LINES 34&35 SCAN MISSING.
LINE 306 BAD DUE TO TAPE TRANSPORT TURN ON. SUGGEST DELETION.
ROLL INFORMATION BAD ON LINES 1161,1164,1178,1179. SUGGEST 00710.
ROLL INFORMATION BAD LINE 1291. SUGGEST 00998.

END OF MSG

52

CONTROL NO.	TOR/TOD	PAGE NO.	NO. OF PAGES	MESSAGE IDENTIFICATION	INITIALS
REGRADING INSTRUCTIONS				SECURITY CLASSIFICATION	

ABBREVIATED JOINT MESSAGEFORM
and/or CONTINUATION SHEET

SECURITY CLASSIFICATION
SECRET

Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9

PHONE

PRECEDENCE

ACTION

INFO

~~IMMEDIATE~~

~~IMMEDIATE~~

FROM:

TO:

INFO:

1 SIG GEN
1 COMER
1 DCM
1 P.E.
1 DCO

25X1
25X1
25X1

A. BX 6843

B. TYPE I CAMERA CONFIGURATION REPORT

C. I/C/5 JAN/131

D. 1760/880/880

E. 1640/820/820

F. 3404/1320/293-1-9-7

G. 3.8/YELLOW, WRITTEN 12

H. 54/45

47/48

I. 04012/04292

05132/05452

J. 15/190

6/210

18/190

9/210

42/190

K. NA

L. AS BRIEFED

M. BS SECURITY 050735Z

N. ELAPSED TIME READINGS: 4:42:25. SYSTEM OPERATED NORMALLY.

COMPUTER OUT

V/H VALUES REQUIRES IN PARA J NOT AVAILABLE.

CONTROL NO.

TOR/TOD

PAGE NO. OF
ENVO MESSAGES

MESSAGE IDENTIFICATION

INITIALS

REGRADING INSTRUCTIONS

SECURITY CLASSIFICATION

Approved For Release 2003/11/26 : CIA-RDP69B00041R001500020011-9

DD FORM 173-1
1 NOV 63

REPLACES EDITION OF 1 MAY 55 WHICH MAY BE USED.

25X1

25X1

25X1

25X1

25X1

31-05-20 13z

ZCZC470

091/032150Z ZFF3

BT

XXXXX

[REDACTED]

25X1

25X1

25X1

25X1

TOP SECRET 032101Z CITE [REDACTED]

IMMEDIATE [REDACTED] INFO IMMEDIATE [REDACTED]

[REDACTED]

A. BX6843

B. MISSION ALERT MSG

C. 0230Z/5 JAN 68.

25X1

D. [REDACTED]

E. NORTH VIETNAM.

25X1

F. TYPE I CAMERA, [REDACTED]

25X1

G. BACK-UP AIRCRAFT REQUIRED. SAME EQUIPMENT AS PARA F.

H. DTFC TO LAUNCH BACK-UP ACFT AT APPROX 0330Z/5 JAN 68 IN EVENT
PRIMARY ACFT GROUND/AIR ABORTS. THIS ALERT FOR CUSTOM BLACK SHIELD
ROUTE. A-50 ADDITIVE WILL NOT BE USED ON THIS MISSION. THIS ALERT

25X1

25X1

FOR A [REDACTED] A/R NR 1; [REDACTED] A/R NR 2.

TOP SECRET

BT

25X1

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Next 1 Page(s) In Document Exempt

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JAN 5, 1968

Submit to addressee specified for report

25X1

25X1



25X1

A. BX 6843
(Operations Mission Number)

25X1

B. TYPE I CAMERA CONFIGURATION REPORT:

C. IC/JAN 5/131
(Config./SN/Date Flown/Acft No./Pilot Pseudo Example:)

D. 1760 1880 880
(Total frames scheduled-fwd camera & aft camera).

E. 1640 1820 820
(Total frames completed-fwd camera & aft camera).

F. 3404 1320 293-1-9-7
(Film type/box no./emulsion no. Example: 3401/1234/245-13-3-6).

G. 3.6/YELLOW, WRATTEN 12.

H. SUN ANGLES.

BEGINNING

END

<u>54</u>	<u>°</u>	<u>1</u>	<u>45</u>	<u>°</u>
<u>47</u>	<u>°</u>	<u>1</u>	<u>48</u>	<u>°</u>
<u> </u>	<u>°</u>	<u>1</u>	<u> </u>	<u>°</u>

I. CAMERA ON CAMERA OFF (Date/Time ZULU. Example: 202116Z/202130Z).

<u>0401</u>	<u>Z</u>	<u>0429</u>	<u>Z</u>
<u>0513</u>	<u>Z</u>	<u>0545</u>	<u>Z</u>
<u> </u>	<u>Z</u>	<u> </u>	<u>Z</u>

J. ELAPSED TIME (MINUTES)/EXPOSURE VALUE/V/E IN MR/SECONDS. EXAMPLE: 4/300/.03.

15 ~~0401~~ 11901
6 ~~1829~~ 12101
18 ~~2942~~ 11901
9 ~~4251~~ 12101
42 ~~5664~~ 11901

- 2 -

25X1

☐ CONT'D.

K. N/A.

L. WEATHER. (General comment on weather during photo portions of mission).

AS BRIEFED.

M. TAKE DISPOSITION (Location, shipment, or action on material - date/time taken).
Example: EK 290135Z or Area Security 290135Z).

BS SECURITY 050735 Z.

N. COMMENTS. (Include general remarks regarding configuration operation, malfunctions or mission problems).

ELAPSED TIME READINGS: 4:42:25

SYSTEM OPERATED NORMALLY.

☐ COMPUTER OUT V/H VALVES REQUIRED
IN PARA. J NOT AVAILABLE

NNNZCZC365

25X1 FTP634/0192133 ZPO [REDACTED]

BT

XXXXX

25X1 OPCEN 867 [REDACTED]

OPCEN PASS [REDACTED]

25X1

TOP SECRET 190128Z JAN 69 CITE [REDACTED]

25X1 PRIORITY [REDACTED]

INFO [REDACTED]

25X1

A. BX 5F43

B. INS-FILM CORRELATION REPORT

C. INS C10

D. 1. INS TAPE AND FILM AGREE

2. INS TAPE AND FILM AGREE

3. INS TAPE AND FILM AGREE

4. INS TAPE AND FILM AGREE

5. SATISFACTORY

6. SATISFACTORY

7. SATISFACTORY

8. SATISFACTORY

9. SATISFACTORY

10. FILM CLOCK SHOWS A CONSTANT BIAS OF PLUS ONE OR TWO SECONDS
THROUGHOUT THE MISSION.

E. SATISFACTORY CORRELATION HAS BEEN ACHIEVED ON THIS MISSION.

TOP SECRET

BT

DCM